

AMENDMENTS

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A semiconductor configuration for dissipating heat away from a semiconductor device having a plurality of power lines, the configuration comprising:

a semiconductor substrate; and

a plurality of interconnect structures disposed on the substrate and in contact therewith and extending through the semiconductor device, the interconnect structures for dissipating heat through the substrate,

wherein the plurality of interconnect structures are disposed ~~within~~ near a power line, and

wherein the plurality of interconnect structures are substantially enveloped in an insulating layer.

2. (original) The semiconductor configuration of claim 1, further comprising a heat sink in contact with the substrate.

3. (original) The semiconductor configuration of claim 1, wherein each of the plurality of interconnect structures comprises at least one via stack.

4. (original) The semiconductor configuration of claim 3, wherein the plurality of interconnect structures are closed to the power line.

5. (original) The semiconductor configuration of claim 3, wherein at least one of the plurality of interconnect structures is joined to one other of the plurality of interconnect structures using a bridge structure.
6. (original) The semiconductor configuration of claim 3, including bridge structures, each of the bridge structures joins a respective one of the plurality of interconnect structures to one other of the plurality of interconnect structures.
7. (original) The semiconductor configuration of claim 3, wherein a width of each of the interconnect structures is from about 0.1 μ m to about 10 μ m.
8. (original) The semiconductor configuration of claim 3, wherein the interconnect structures are spaced apart from each other by a width of one of the interconnect structures.
9. (original) The semiconductor configuration of claim 3, wherein each of the plurality of bridges is alternatively spaced apart from a serpentine power line by a distance.
10. (original) The semiconductor configuration of claim 9, wherein the distance is a width of one of the plurality of interconnect structures.
11. (original) The semiconductor configuration of claim 3, wherein each of the plurality of interconnect structures is spaced apart from a linear power line by a distance.
12. (original) The semiconductor configuration of claim 11, wherein the distance is the width of one of the plurality of interconnect structures.
13. (cancelled)

14. (currently amended) The semiconductor configuration of claim 113, wherein the interconnect structures are alternatively spaced apart from each other by a width of one of the interconnect structures.

15. (currently amended) The semiconductor configuration of claim 113, wherein a ratio of the width of one of the interconnect structures to the power line is between about 1 to about 20.

16. (currently amended) The semiconductor configuration of claim 113, wherein a width of each of the interconnect structures is from about 0.1 μ m to about 10 μ m.

17. (currently amended) The semiconductor configuration of claim 113, wherein the interconnect structures are spaced apart from each other by a width of one of the interconnect structures.

18. (currently amended) The semiconductor configuration of claim 113, wherein each of the plurality of interconnect structures is alternatively spaced apart within the power line by a distance.

19. (currently amended) The semiconductor configuration of claim 113, wherein the distance is the width of one of the plurality of interconnect structures.

20. (currently amended) The semiconductor configuration of claim 113, wherein the power line has a serpentine shape.

21. (currently amended) The semiconductor configuration of claim 113, wherein the power line has a linear shape.

22-25. (cancelled)